

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060617\  
 Data File : BG027269.D  
 Acq On : 7 Jun 2017 4:00  
 Operator : SJ/MA  
 Sample : I3393-01DL 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 07 05:21:19 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 05 16:00:35 2017  
 Response via : Initial Calibration

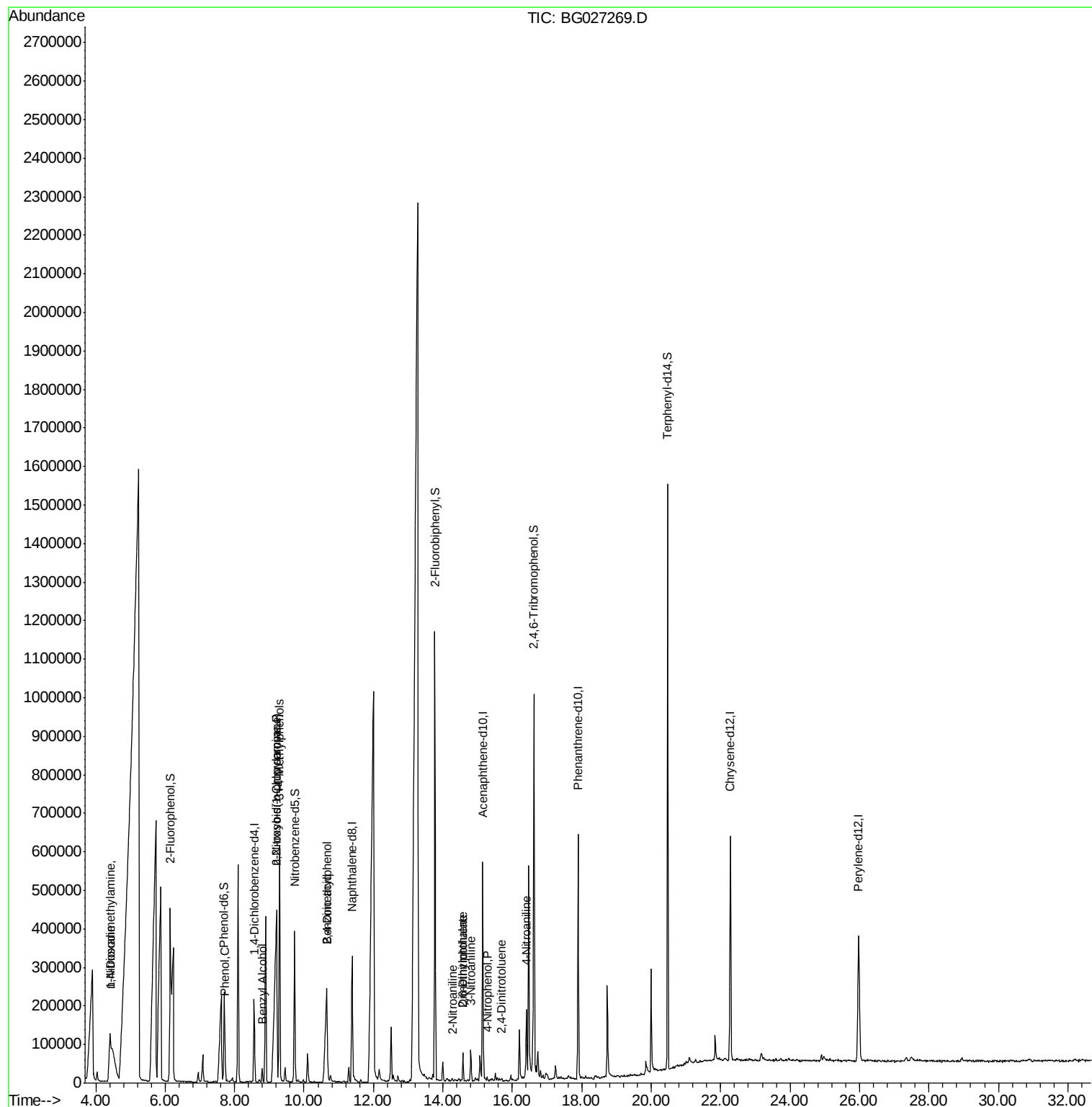
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.56  | 152  | 60571    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8             | 11.39 | 136  | 295028   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10           | 15.15 | 164  | 185672   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10           | 17.90 | 188  | 398097   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12               | 22.28 | 240  | 422054   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12               | 25.97 | 264  | 396308   | 20.00 | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 6.15  | 112  | 162759   | 41.00 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.70  | 99   | 152450   | 26.16 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.73  | 82   | 260644   | 55.56 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.63 | 330  | 180101   | 73.66 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.77 | 172  | 622067   | 46.87 | ng    | -0.02    |
| 78) Terphenyl-d14              | 20.47 | 244  | 716448   | 43.30 | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       |          |
| 2) 1,4-Dioxane                 | 4.42  | 88   | 10659    | 6.48  | ng    | # 1      |
| 4) n-Nitrosodimethylamine      | 4.42  | 42   | 26491    | 14.10 | ng    | # 20     |
| 10) Phenol                     | 7.72  | 94   | 29319    | 4.92  | ng    | # 79     |
| 15) Benzyl Alcohol             | 8.79  | 79   | 13972    | 3.40  | ng    | # 84     |
| 16) 2,2'-oxybis(1-Chloropropan | 9.21  | 45   | 78232    | 11.19 | ng    | # 79     |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 58980    | 14.47 | ng    | # 55     |
| 20) 3+4-Methylphenols          | 9.29  | 107  | 315027   | 53.99 | ng    | # 80     |
| 27) 2,4-Dimethylphenol         | 10.66 | 122  | 176600   | 37.23 | ng    | # 1      |
| 32) Benzoic acid               | 10.66 | 122  | 176600   | 52.86 | ng    | # 84     |
| 47) 2-Nitroaniline             | 14.27 | 65   | 744      | 7.03  | ng    | # 44     |
| 49) Dimethylphthalate          | 14.58 | 163  | 51098    | 3.47  | ng    | # 99     |
| 50) 2,6-Dinitrotoluene         | 14.58 | 165  | 401      | 5.73  | ng    | # 1      |
| 52) 3-Nitroaniline             | 14.81 | 138  | 452      | 5.84  | ng    | # 7      |
| 55) 4-Nitrophenol              | 15.28 | 139  | 1616     | 6.66  | ng    | # 4      |
| 56) 2,4-Dinitrotoluene         | 15.70 | 165  | 62       | 7.00  | ng    | # 16     |
| 61) 4-Nitroaniline             | 16.40 | 138  | 208      | 5.95  | ng    | # 17     |

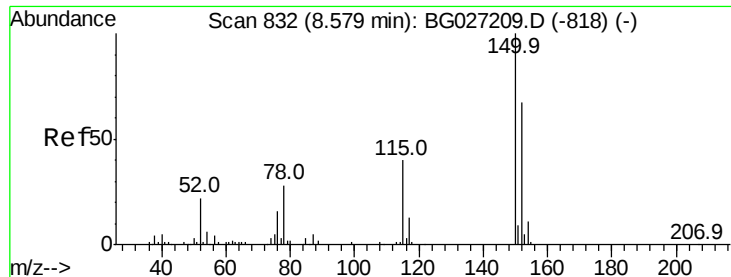
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060617\  
Data File : BG027269.D  
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Sample : I3393-01DL 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jun 07 05:21:19 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060517.M  
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QLast Update : Mon Jun 05 16:00:35 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.56 min Scan# 830

Delta R.T. -0.01 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

Instrument :

BNA\_G

ClientSampled :

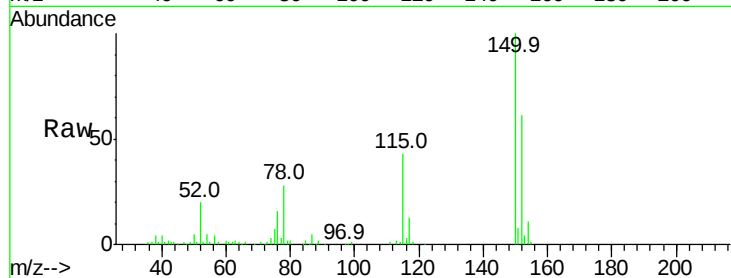
Tot Ion:152 Resp: 60571

Ion Ratio Lower Upper

152 100

150 164.7 114.0 171.0

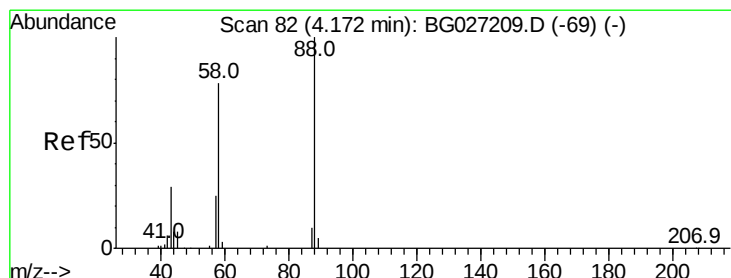
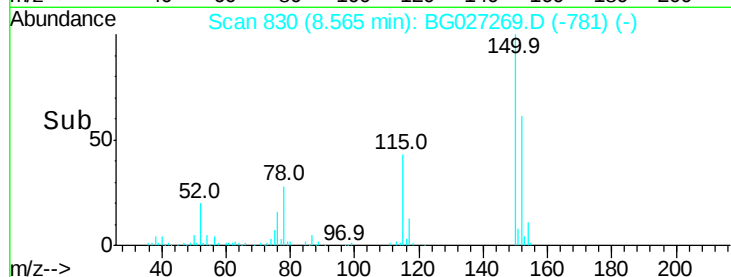
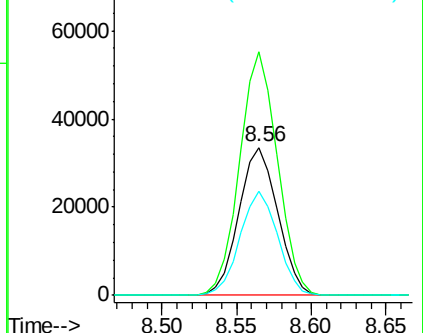
115 70.8 48.1 72.1



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 6.48 ng

RT: 4.42 min Scan# 124

Delta R.T. 0.24 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

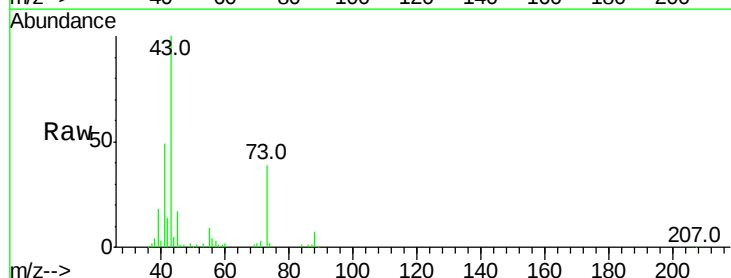
Tgt Ion: 88 Resp: 10659

Ion Ratio Lower Upper

88 100

58 1.3 79.4 119.2#

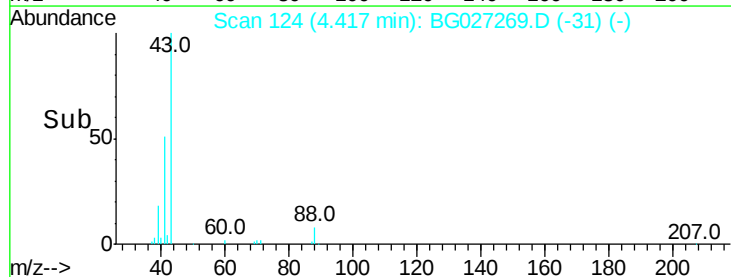
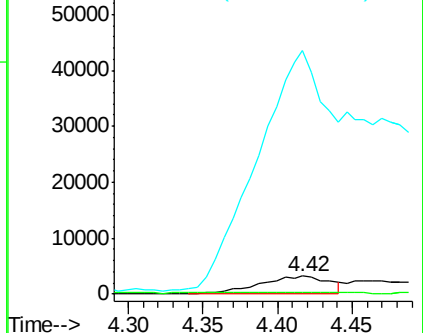
43 1362.7 33.8 50.6#

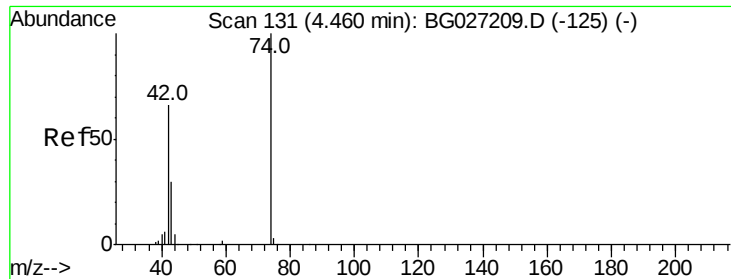


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#4

n-Nitrosodimethylamine

Concen: 14.10 ng

RT: 4.42 min Scan# 124

Delta R.T. -0.04 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

Instrument :

BNA\_G

ClientSampleId :

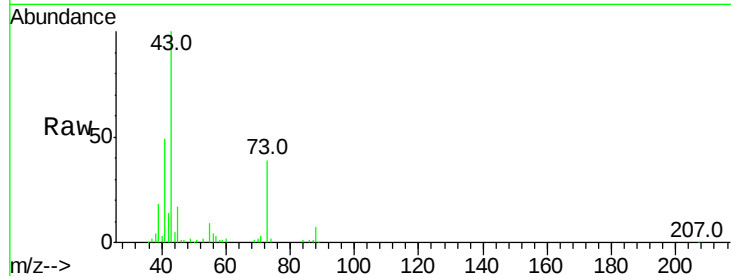
Tot Ion: 42 Resp: 26491

Ion Ratio Lower Upper

42 100

74 17.4 76.7 115.1#

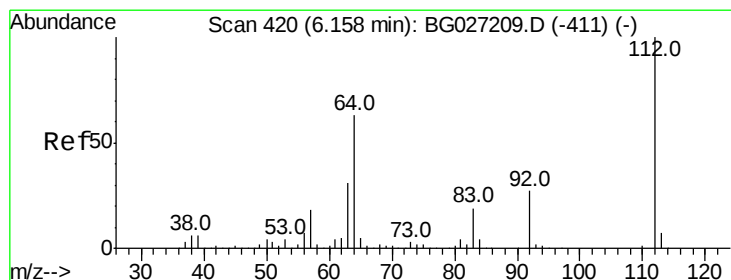
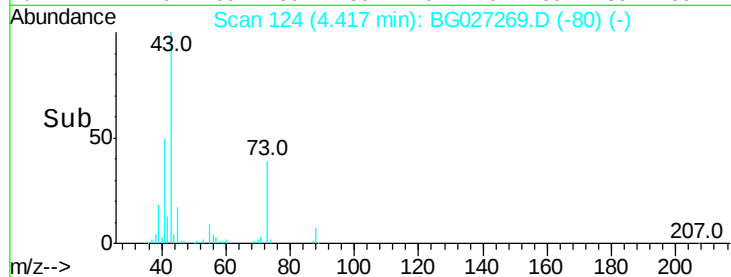
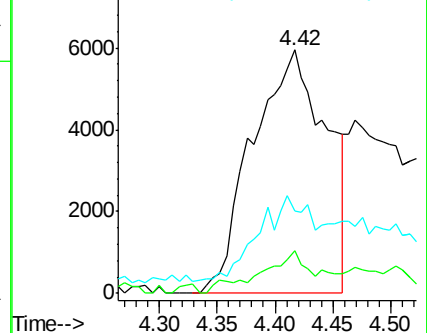
44 33.8 6.1 9.1#



Abundance Ion 42.00 (41.70 to 42.70): BGC

Ion 74.00 (73.70 to 74.70): BGC

Ion 44.00 (43.70 to 44.70): BGC



#5

2-Fluorophenol

Concen: 41.00 ng

RT: 6.15 min Scan# 419

Delta R.T. -0.01 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

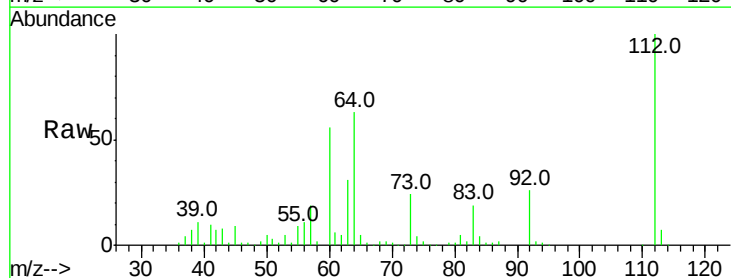
Tgt Ion: 112 Resp: 162759

Ion Ratio Lower Upper

112 100

64 63.3 61.8 92.6

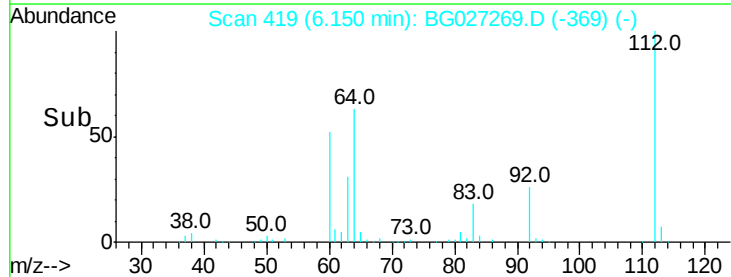
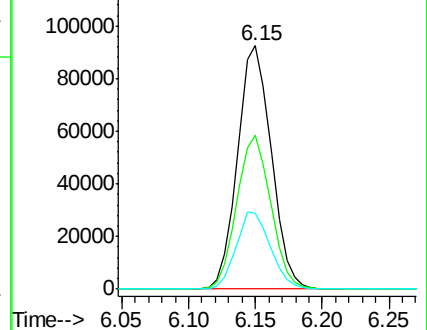
63 30.9 37.2 55.8#

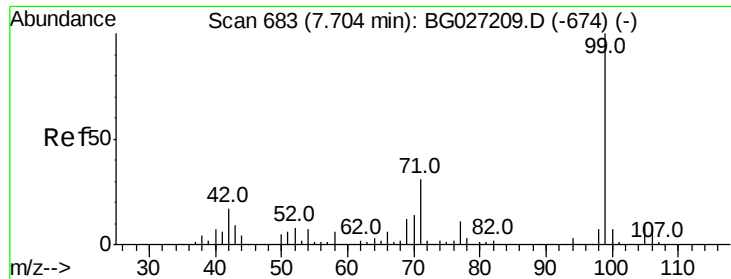


Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 26.16 ng

RT: 7.70 min Scan# 683

Delta R.T. -0.00 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

Instrument :

BNA\_G

ClientSampleId :

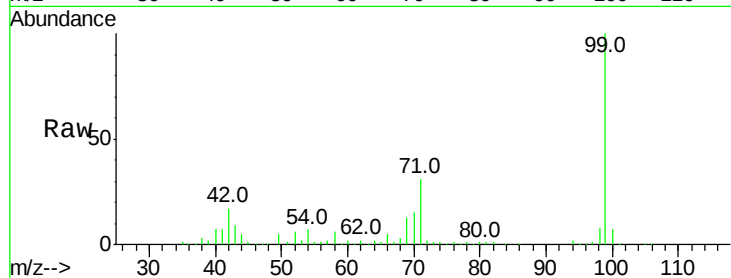
Tot Ion: 99 Resp: 152450

Ion Ratio Lower Upper

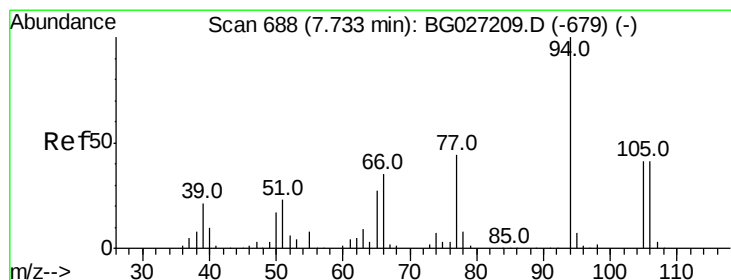
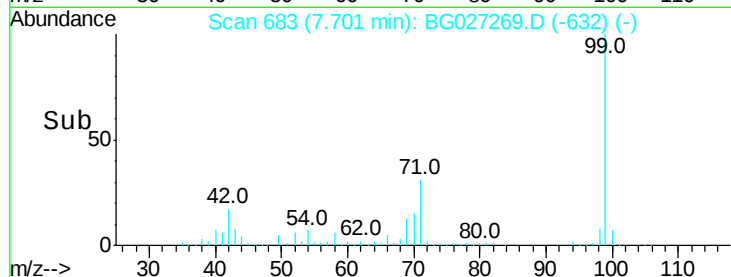
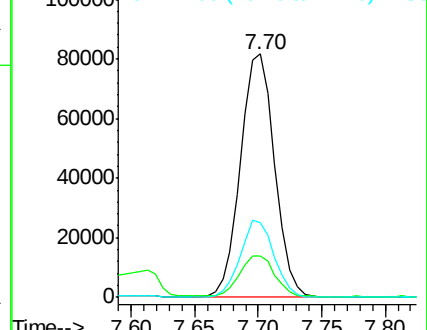
99 100

42 16.9 20.5 30.7#

71 30.8 37.6 56.4#



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#10

Phenol

Concen: 4.92 ng

RT: 7.72 min Scan# 687

Delta R.T. -0.01 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

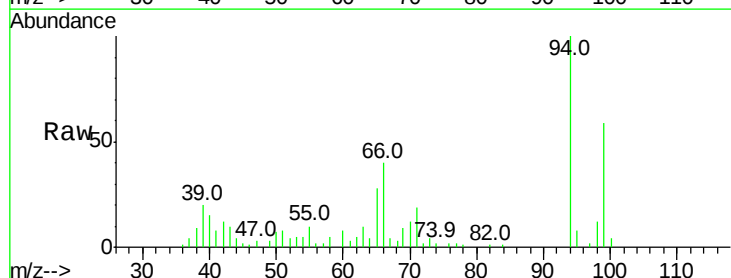
Tgt Ion: 94 Resp: 29319

Ion Ratio Lower Upper

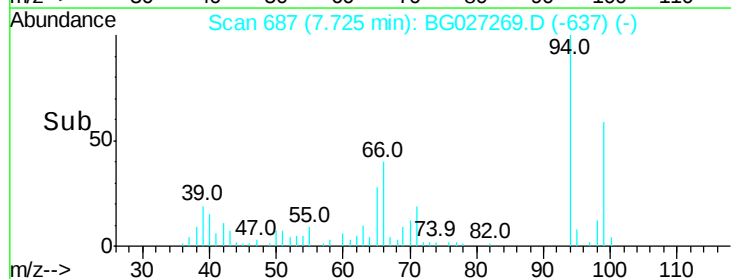
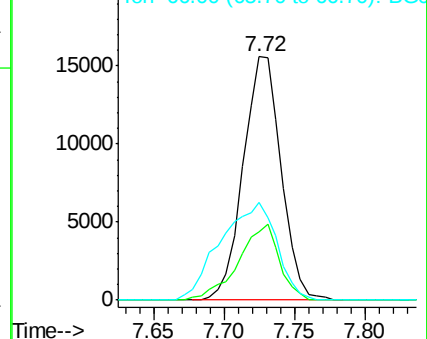
94 100

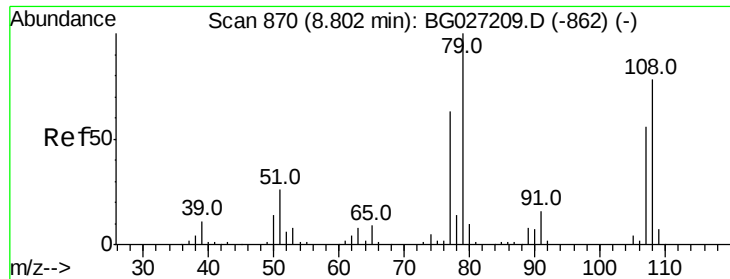
65 27.9 20.6 60.6

66 40.1 35.5 75.5



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC





#15

Benzyl Alcohol

Concen: 3.40 ng

RT: 8.79 min Scan# 869

Delta R.T. -0.01 min

Lab File: BG027269.D

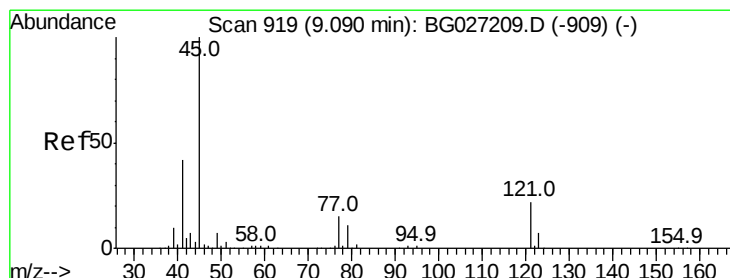
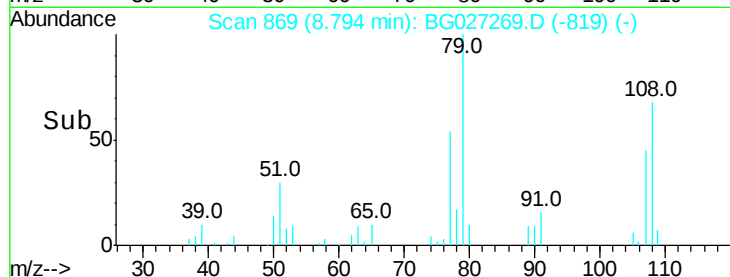
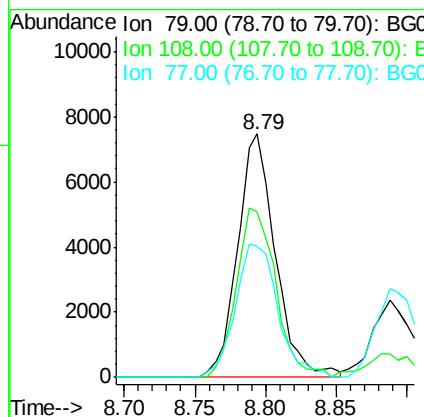
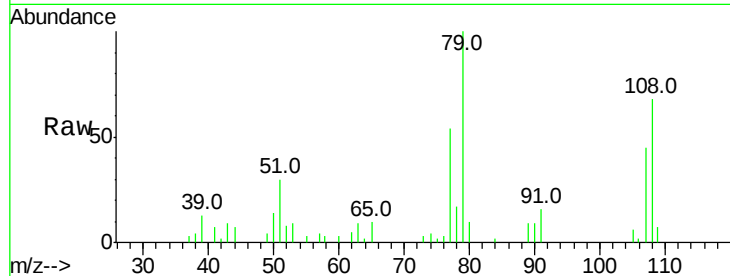
Acq: 7 Jun 2017 4:00

Instrument :

BNA\_G

ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 108     | 68.0  | 45.5  | 68.3  |
| 77      | 53.7  | 54.3  | 81.5# |



#16

2,2'-oxybis(1-Chloropropane)

Concen: 11.19 ng

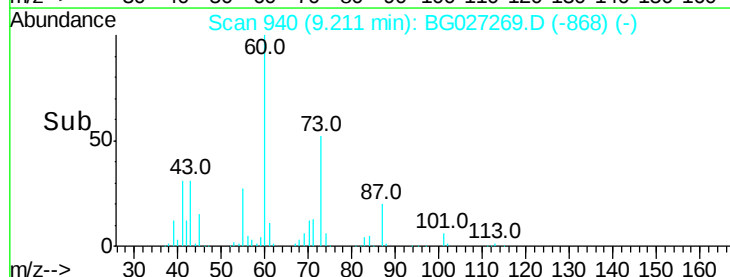
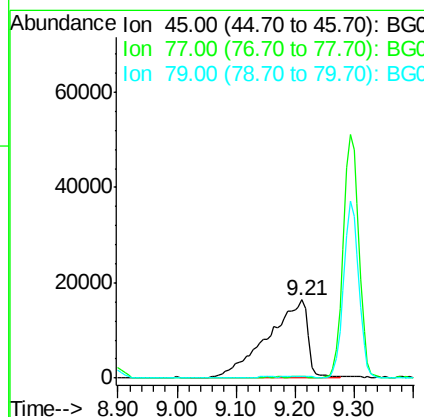
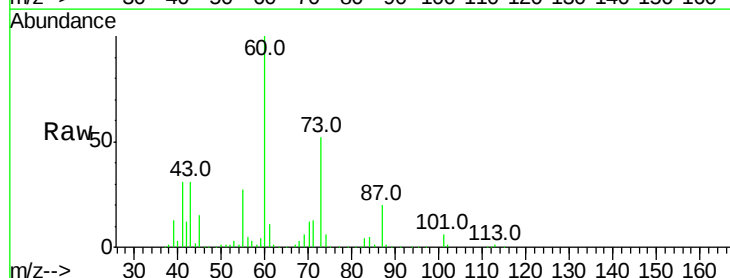
RT: 9.21 min Scan# 940

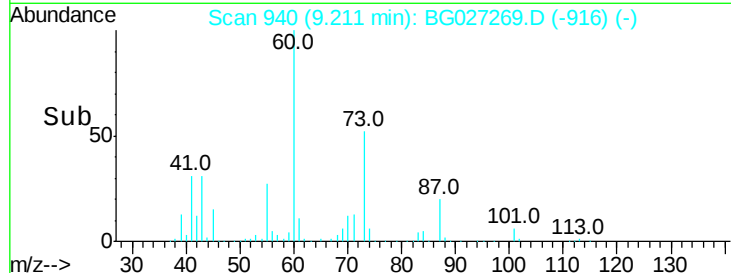
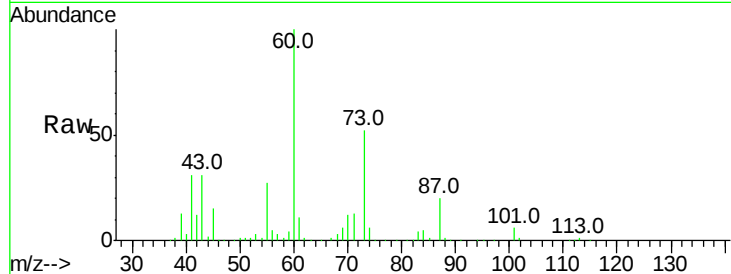
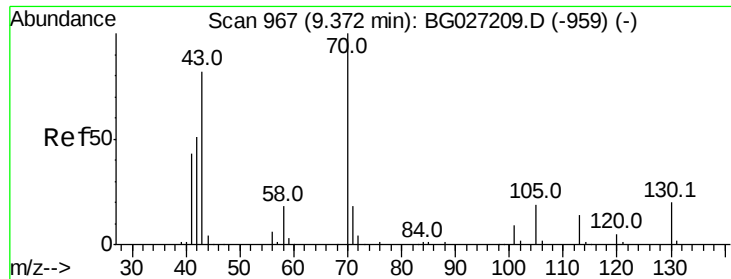
Delta R.T. 0.12 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 77      | 1.6   | 0.0   | 30.6  |
| 79      | 2.3   | 0.0   | 28.5  |

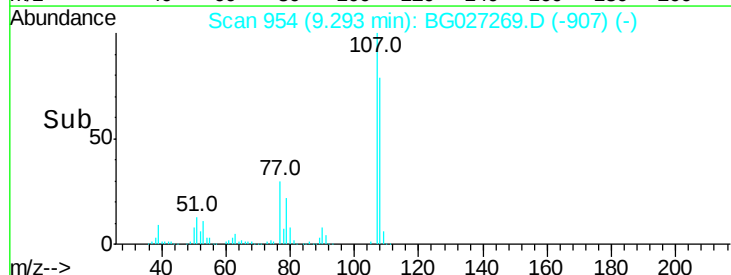
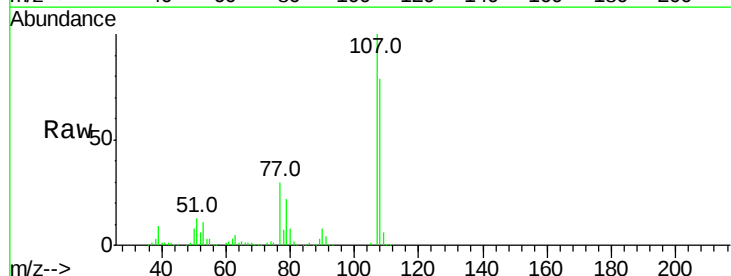
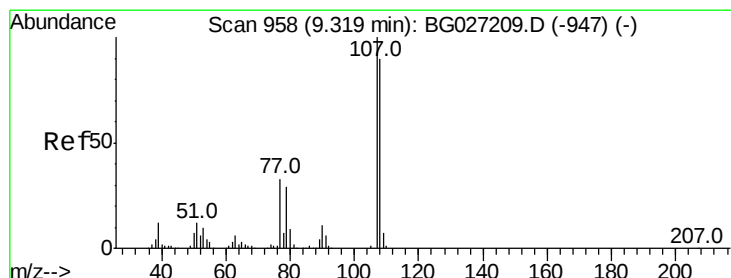
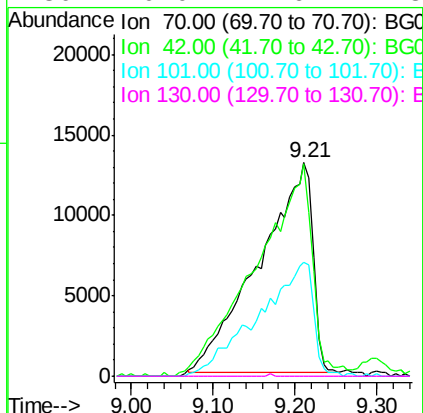




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.47 ng  
RT: 9.21 min Scan# 940  
Delta R.T. -0.16 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

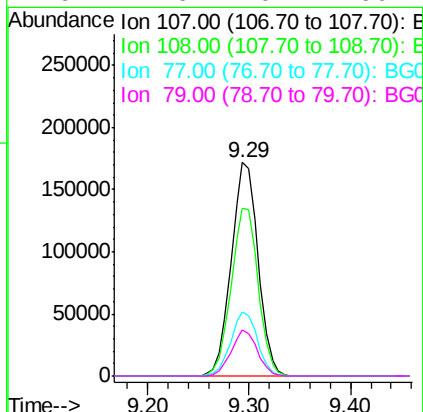
Instrument :  
BNA\_G  
ClientSampleId :

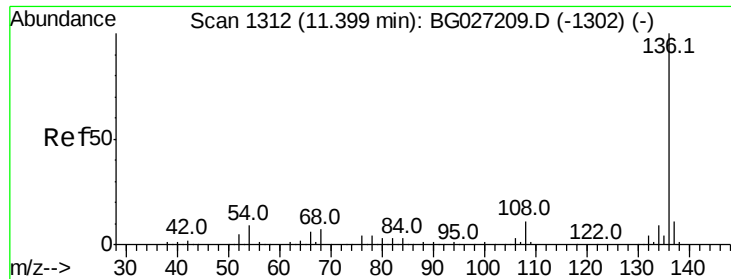
Tot Ion: 70 Resp: 58980  
Ion Ratio Lower Upper  
70 100  
42 99.3 56.1 84.1#  
101 53.6 7.5 11.3#  
130 0.0 14.6 21.8#



#20  
3+4-Methylphenols  
Concen: 53.99 ng  
RT: 9.29 min Scan# 954  
Delta R.T. -0.03 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

Tgt Ion: 107 Resp: 315027  
Ion Ratio Lower Upper  
107 100  
108 78.6 70.8 110.8  
77 29.7 25.8 65.8  
79 21.6 20.1 60.1

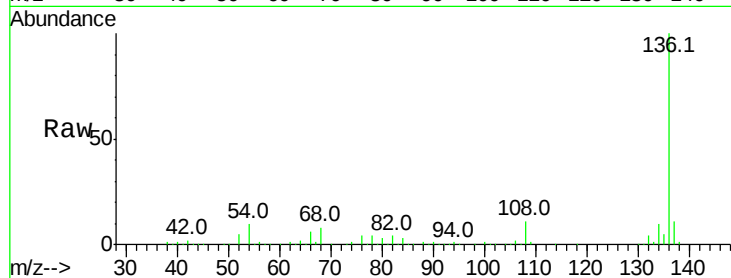




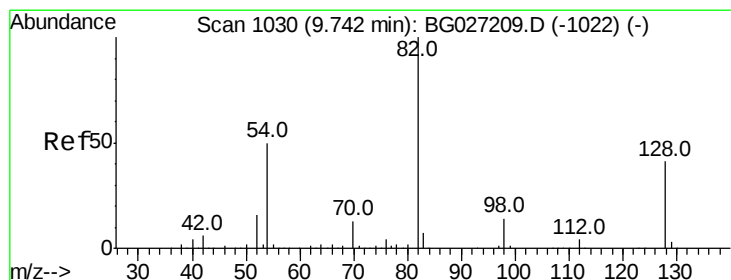
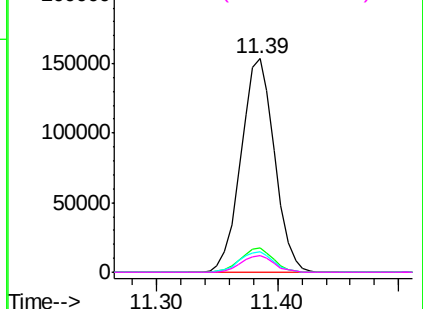
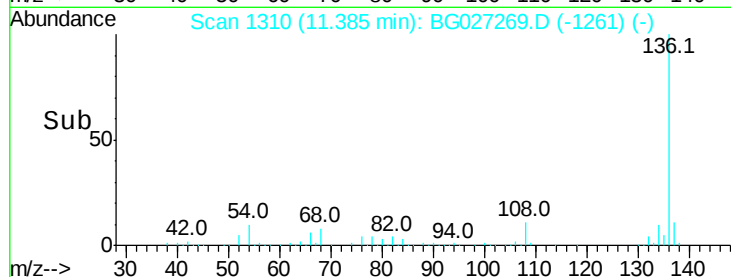
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.39 min Scan# 1310  
Delta R.T. -0.01 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 295028 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.9   | 13.3   |
| 54       | 9.7   | 9.3   | 13.9   |
| 68       | 7.7   | 5.1   | 7.7    |

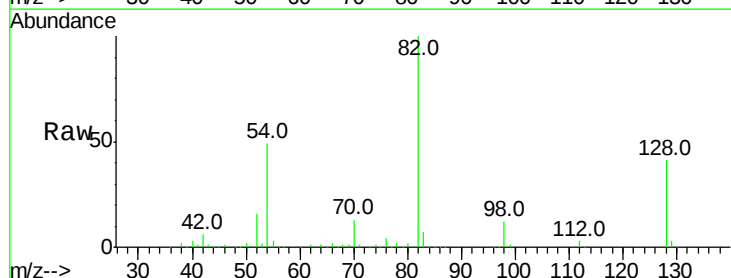


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

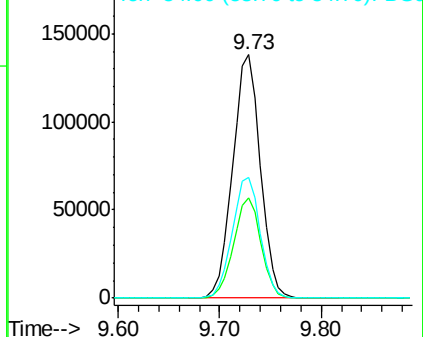
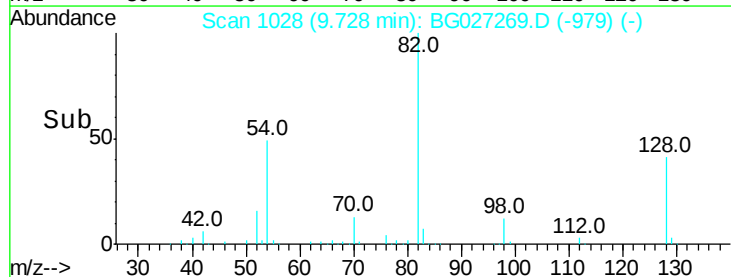


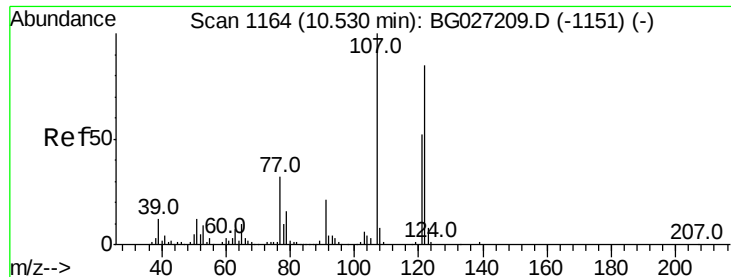
#23  
Nitrobenzene-d5  
Concen: 55.56 ng  
RT: 9.73 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 260644 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 41.0  | 26.4  | 39.6#  |
| 54       | 49.3  | 49.4  | 74.2#  |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

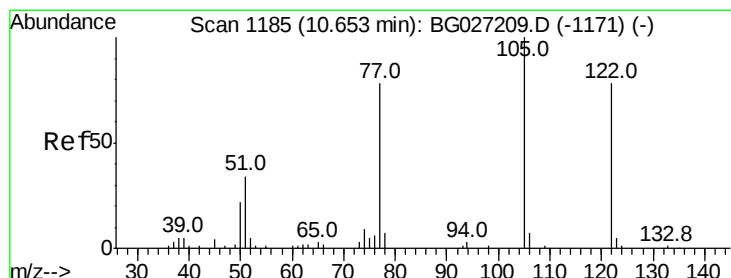
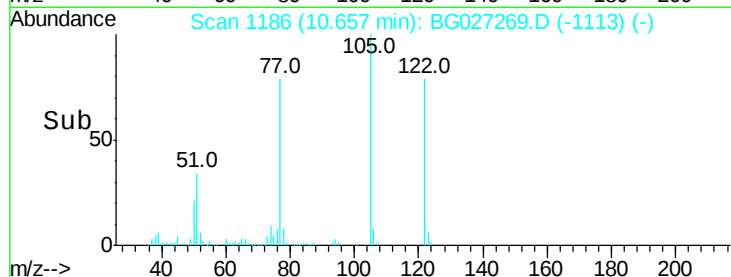
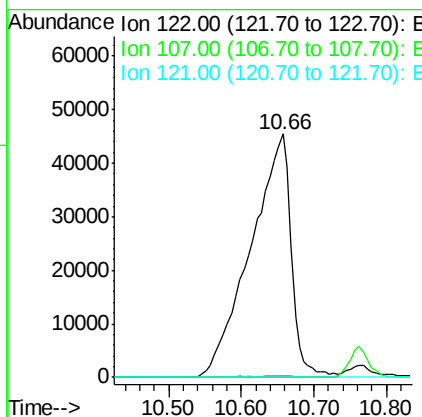
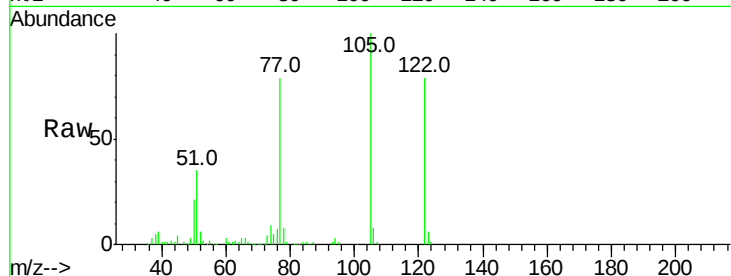




#27  
2,4-Dimethylphenol  
Concen: 37.23 ng  
RT: 10.66 min Scan# 1186  
Delta R.T. 0.13 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

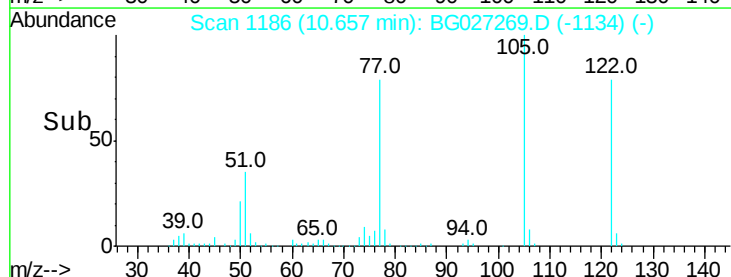
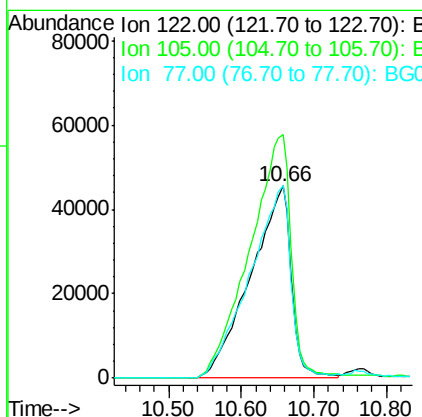
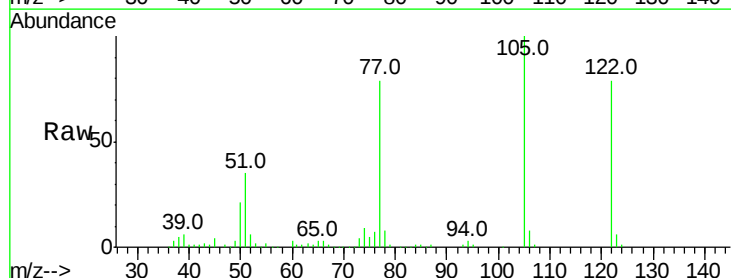
Instrument :  
BNA\_G  
ClientSampleId :

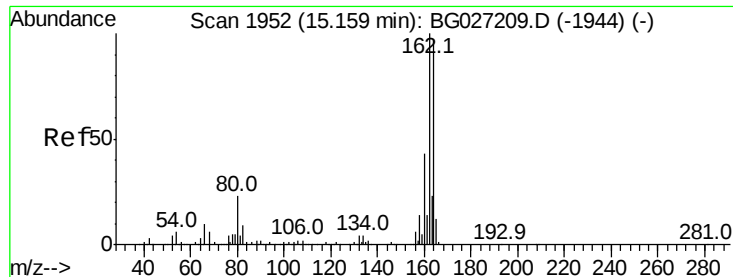
Tot Ion:122 Resp: 176600  
Ion Ratio Lower Upper  
122 100  
107 0.8 104.2 156.4#  
121 0.0 46.0 69.0#



#32  
Benzoic acid  
Concen: 52.86 ng  
RT: 10.66 min Scan# 1186  
Delta R.T. 0.00 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

Tgt Ion:122 Resp: 176600  
Ion Ratio Lower Upper  
122 100  
105 126.9 120.1 160.1  
77 100.2 104.6 144.6#

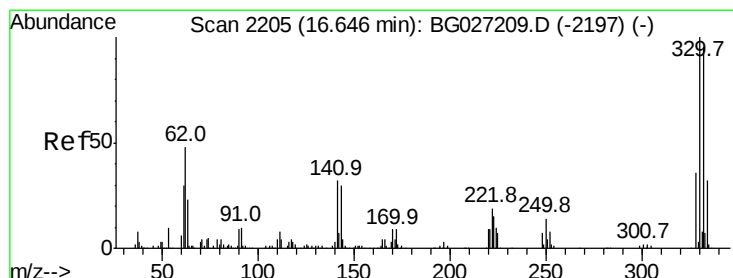
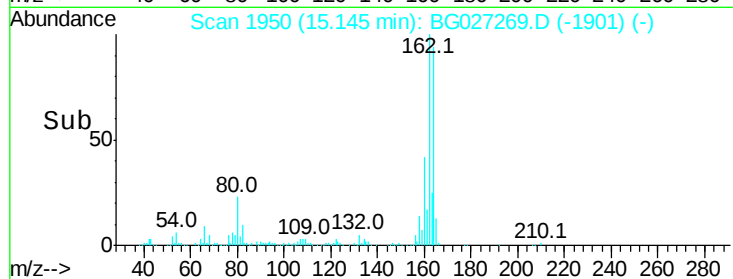
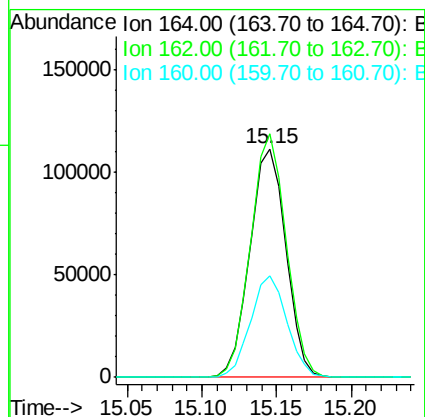
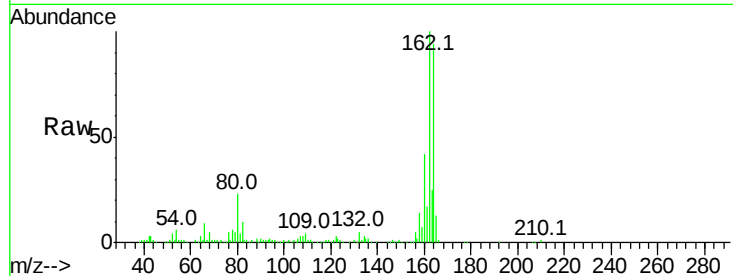




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 15.15 min Scan# 1950  
Delta R.T. -0.01 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

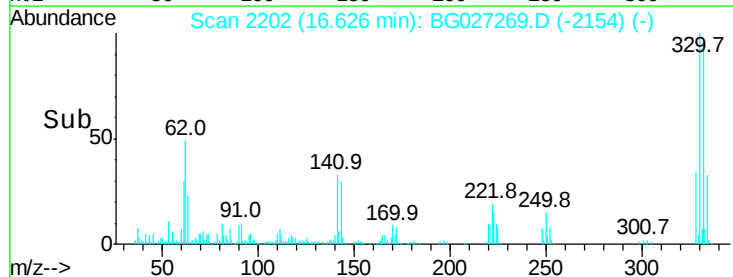
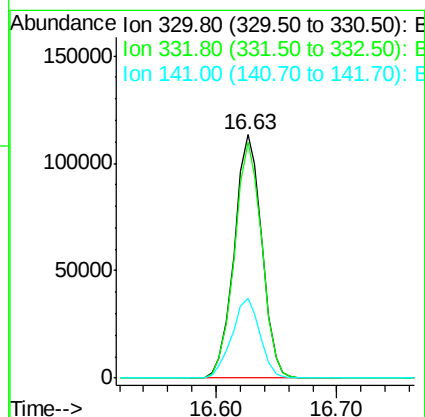
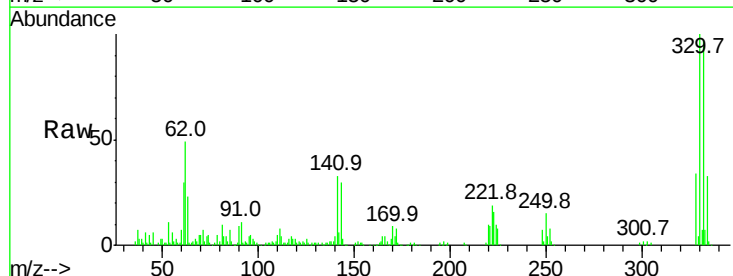
Instrument :  
BNA\_G  
ClientSampleId :

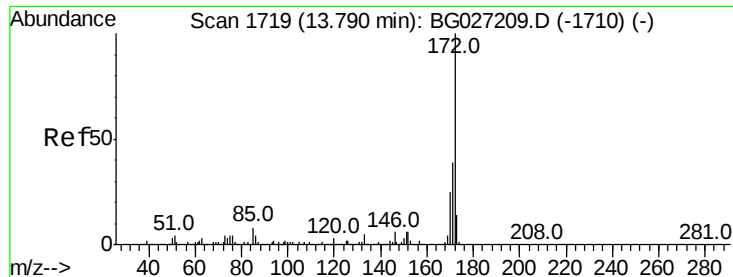
Tot Ion:164 Resp: 185672  
Ion Ratio Lower Upper  
164 100  
162 106.5 85.1 127.7  
160 44.4 34.7 52.1



#41  
2,4,6-Tribromophenol  
Concen: 73.66 ng  
RT: 16.63 min Scan# 2202  
Delta R.T. -0.02 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

Tgt Ion:330 Resp: 180101  
Ion Ratio Lower Upper  
330 100  
332 96.2 77.3 115.9  
141 33.6 32.1 48.1

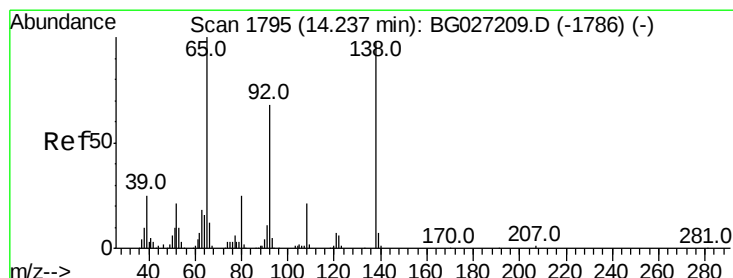
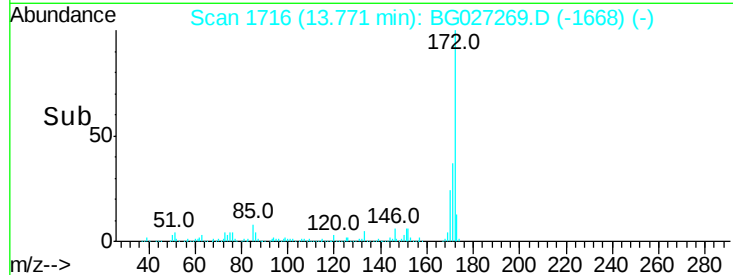
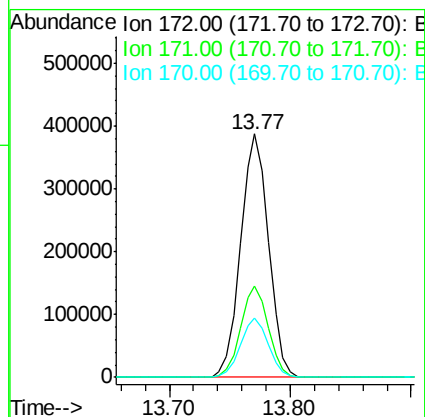
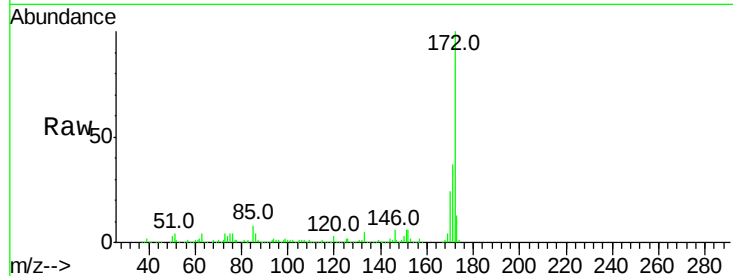




#44  
2-Fluorobiphenyl  
Concen: 46.87 ng  
RT: 13.77 min Scan# 1716  
Delta R.T. -0.02 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

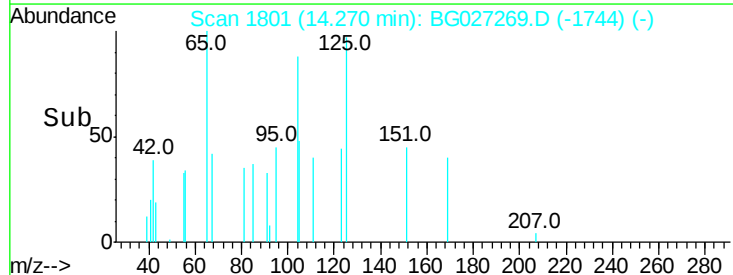
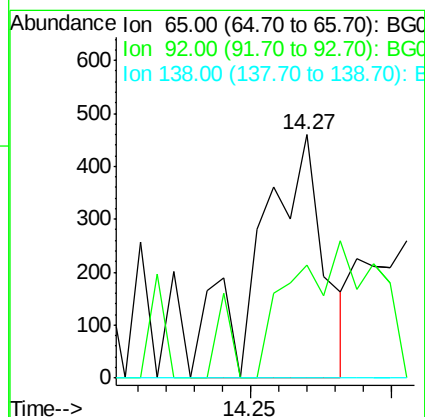
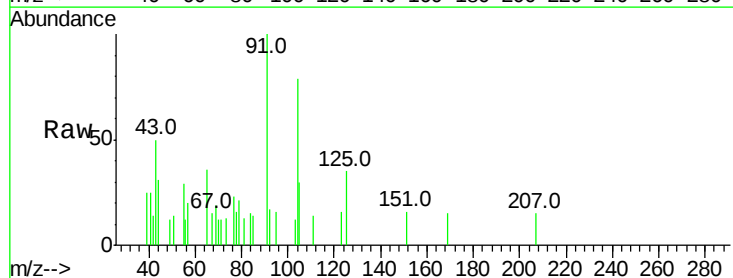
Instrument :  
BNA\_G  
ClientSampleId :

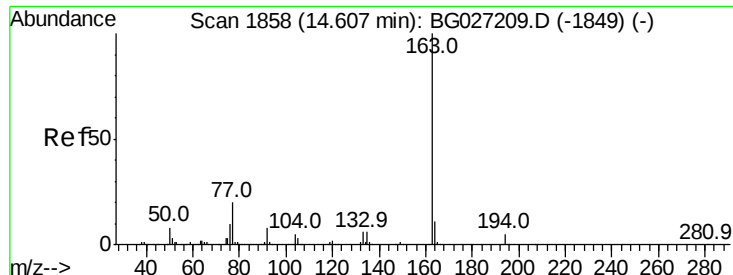
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.3  | 32.2  | 48.2  |
| 170     | 24.3  | 21.8  | 32.6  |



#47  
2-Nitroaniline  
Concen: 7.03 ng  
RT: 14.27 min Scan# 1801  
Delta R.T. 0.03 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 92      | 46.3  | 49.0  | 73.4# |
| 138     | 0.0   | 58.6  | 87.8# |





#49

Dimethylphthalate

Concen: 3.47 ng

RT: 14.58 min Scan# 1853

Delta R.T. -0.03 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

Instrument :

BNA\_G

ClientSampleId :

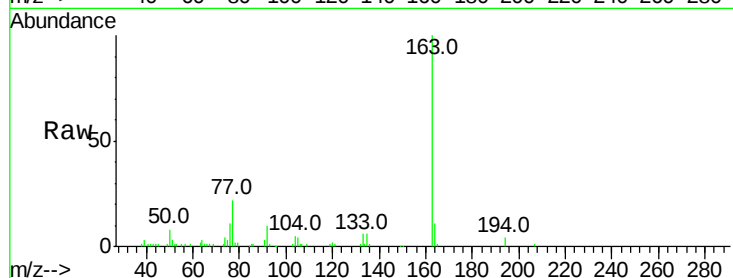
Tot Ion:163 Resp: 51098

Ion Ratio Lower Upper

163 100

194 4.4 3.8 5.6

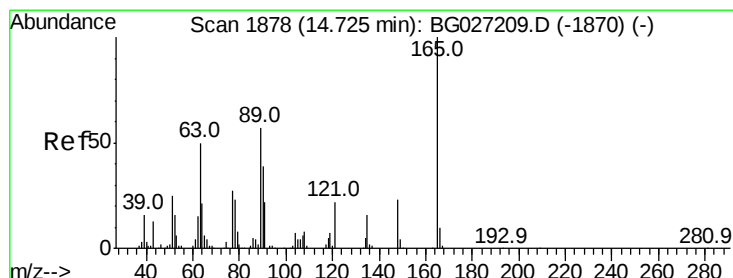
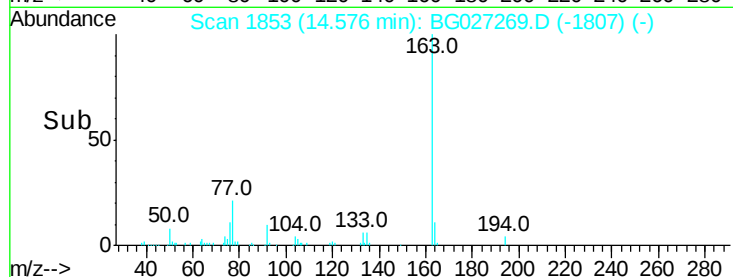
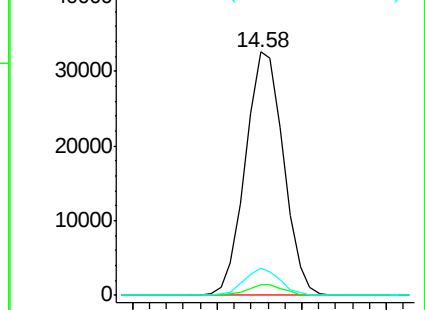
164 11.2 9.3 13.9



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 5.73 ng

RT: 14.58 min Scan# 1854

Delta R.T. -0.14 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

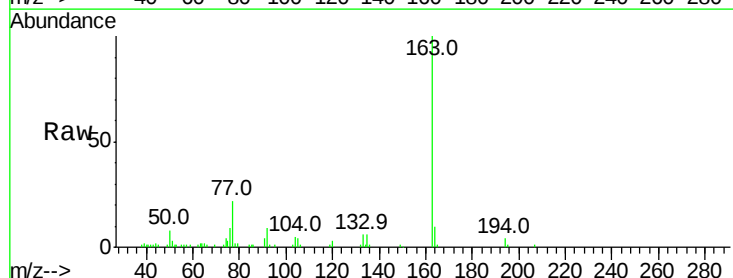
Tgt Ion:165 Resp: 401

Ion Ratio Lower Upper

165 100

63 191.8 63.9 95.9#

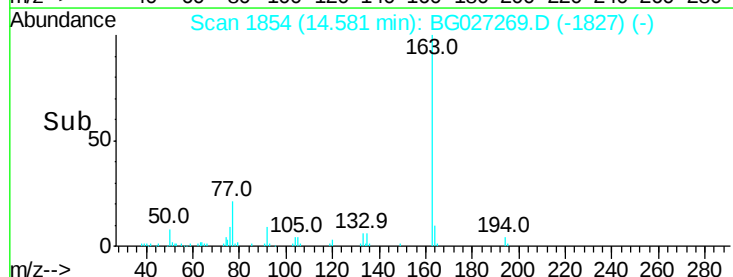
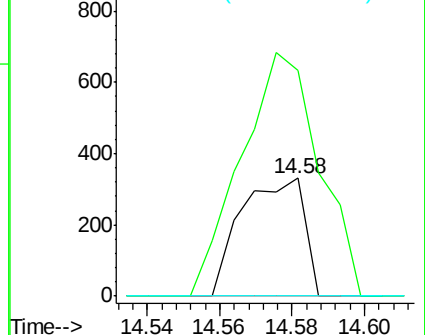
89 0.0 58.6 88.0#

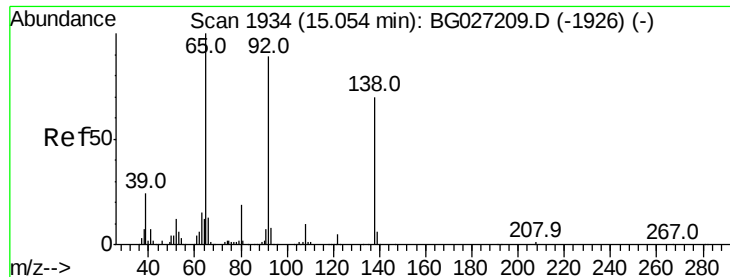


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC





#52

3-Nitroaniline

Concen: 5.84 ng

RT: 14.81 min Scan# 1893

Delta R.T. -0.24 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

Instrument :

BNA\_G

ClientSampled :

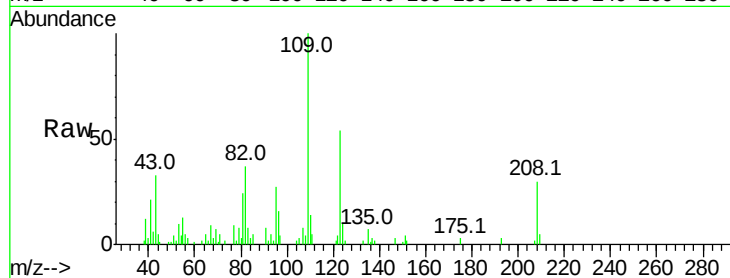
Tot Ion:138 Resp: 452

Ion Ratio Lower Upper

138 100

108 165.9 10.9 16.3#

92 62.2 115.3 172.9#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC

800

600

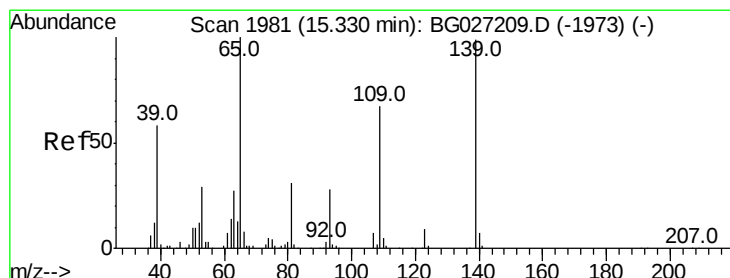
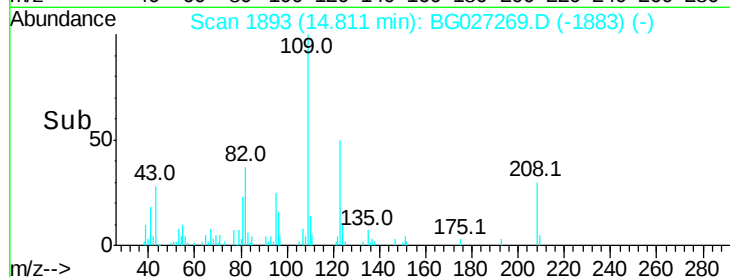
400

200

0

14.80 14.81 14.85

Time-->



#55

4-Nitrophenol

Concen: 6.66 ng

RT: 15.28 min Scan# 1973

Delta R.T. -0.05 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

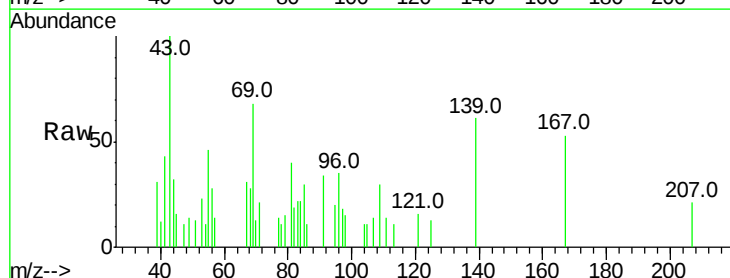
Tgt Ion:139 Resp: 1616

Ion Ratio Lower Upper

139 100

109 48.4 101.2 141.2#

65 0.0 135.3 175.3#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC

1200

1000

800

600

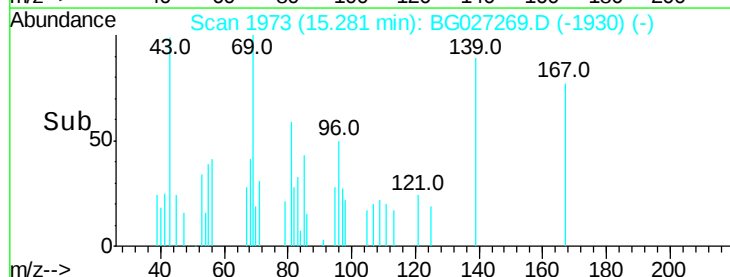
400

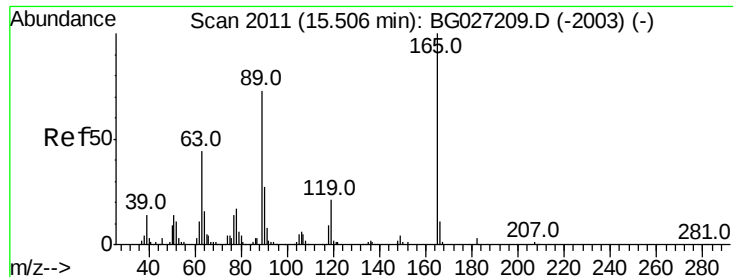
200

0

15.25 15.28 15.30

Time-->

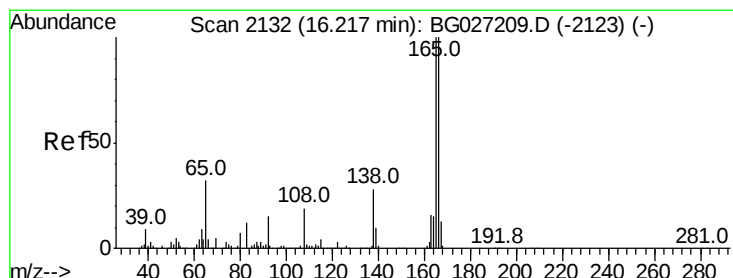
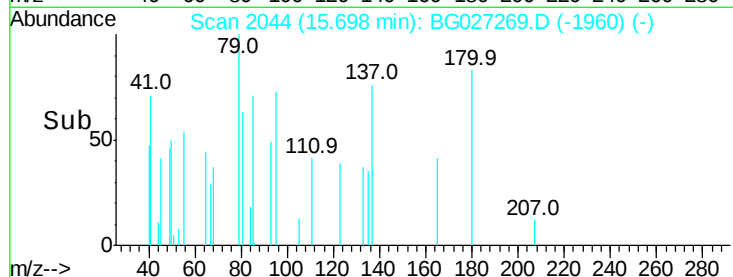
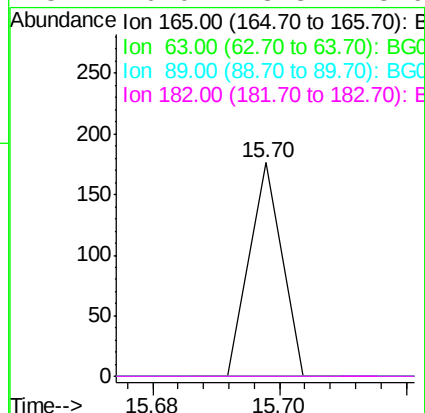
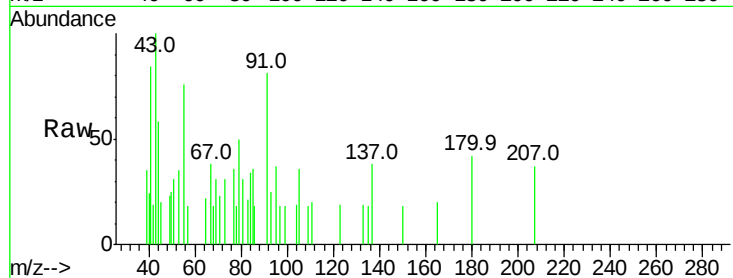




#56  
2,4-Dinitrotoluene  
Concen: 7.00 ng  
RT: 15.70 min Scan# 2044  
Delta R.T. 0.19 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

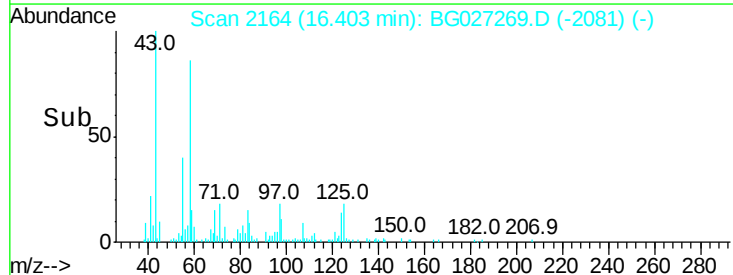
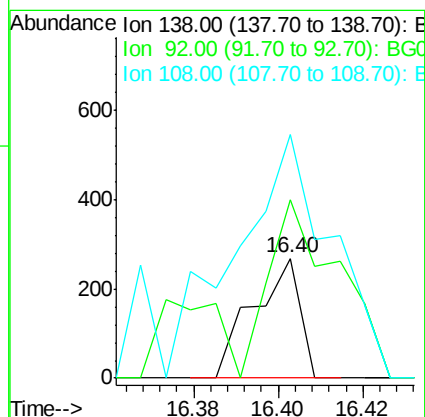
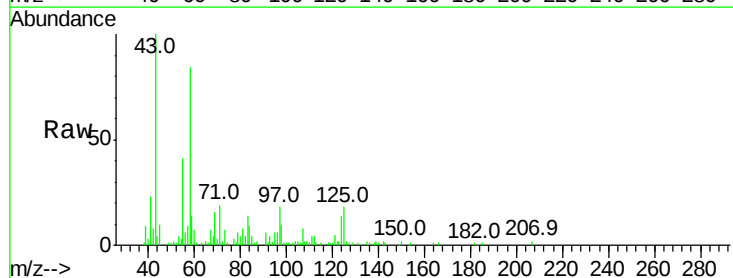
Instrument :  
BNA\_G  
ClientSampleId :

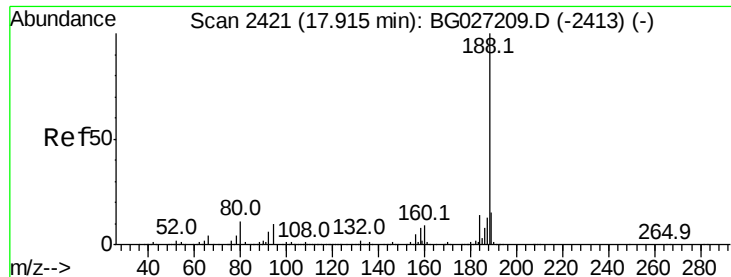
Tot Ion:165 Resp: 62  
Ion Ratio Lower Upper  
165 100  
63 0.0 44.0 66.0#  
89 0.0 67.3 100.9#  
182 0.0 3.8 5.6#



#61  
4-Nitroaniline  
Concen: 5.95 ng  
RT: 16.40 min Scan# 2164  
Delta R.T. 0.19 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

Tgt Ion:138 Resp: 208  
Ion Ratio Lower Upper  
138 100  
92 149.6 44.2 84.2#  
108 203.7 104.8 144.8#

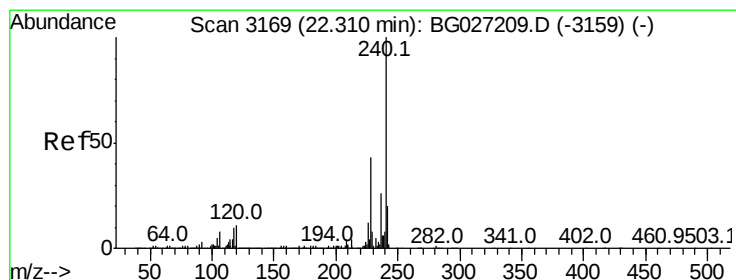
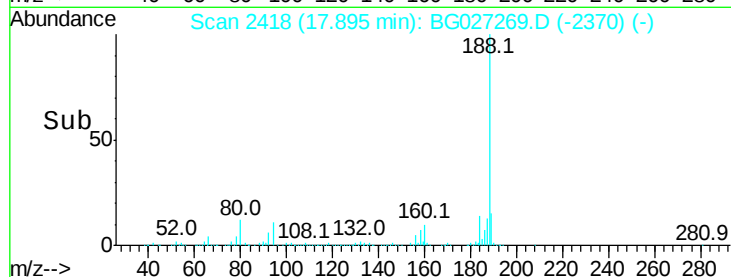
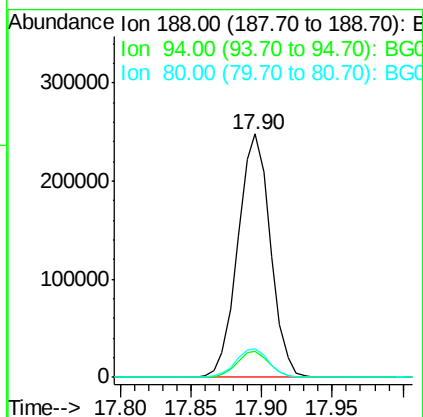
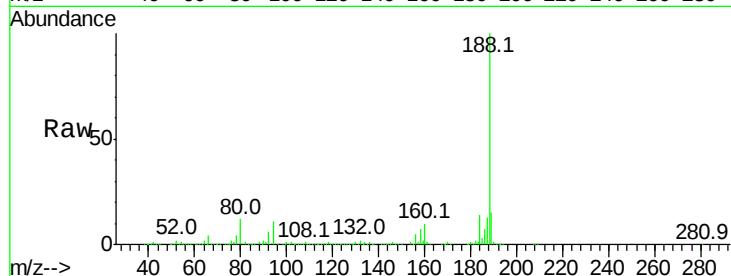




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.90 min Scan# 2418  
Delta R.T. -0.02 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

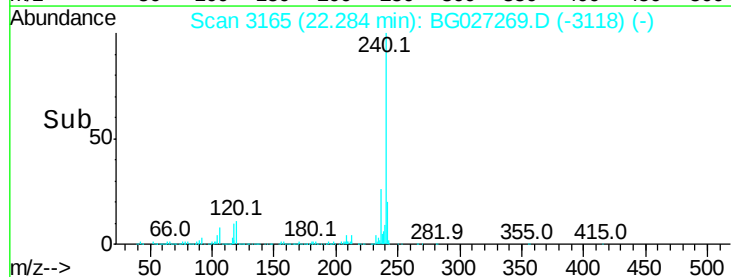
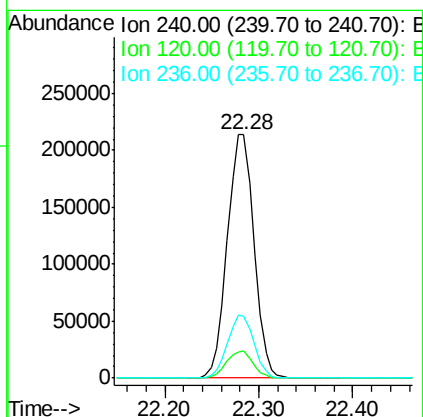
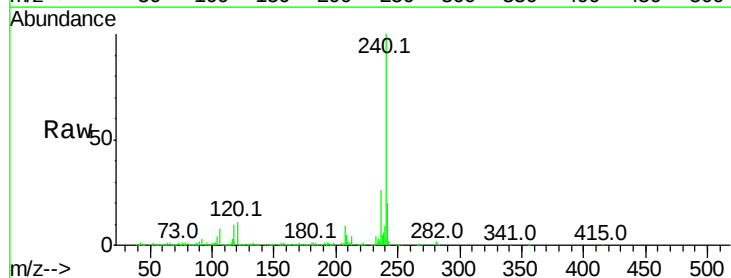
Instrument :  
BNA\_G  
ClientSampleId :

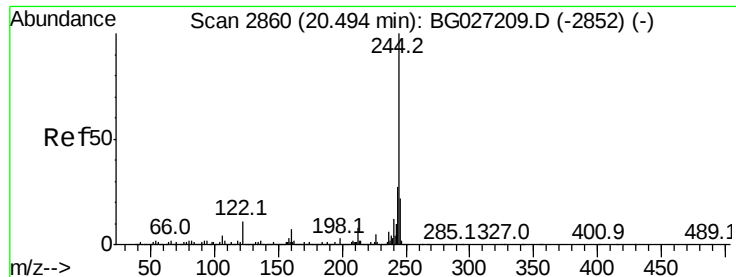
Tot Ion:188 Resp: 398097  
Ion Ratio Lower Upper  
188 100  
94 10.7 5.8 8.8#  
80 11.5 7.5 11.3#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 22.28 min Scan# 3165  
Delta R.T. -0.03 min  
Lab File: BG027269.D  
Acq: 7 Jun 2017 4:00

Tgt Ion:240 Resp: 422054  
Ion Ratio Lower Upper  
240 100  
120 11.0 5.7 8.5#  
236 25.6 22.2 33.4





#78

Terphenyl-d14

Concen: 43.30 ng

RT: 20.47 min Scan# 2857

Delta R.T. -0.02 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

Instrument :

BNA\_G

ClientSampleId :

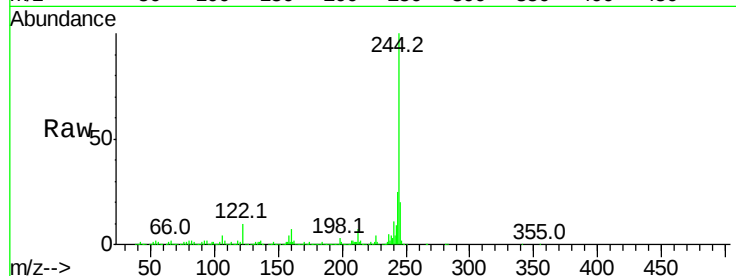
Tot Ion:244 Resp: 716448

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.4   | 10.0  | 15.0# |
| 122 | 10.2  | 8.6   | 12.8  |

244 100

212 7.4 10.0 15.0#

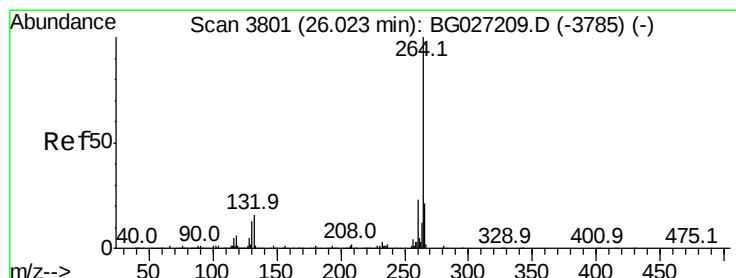
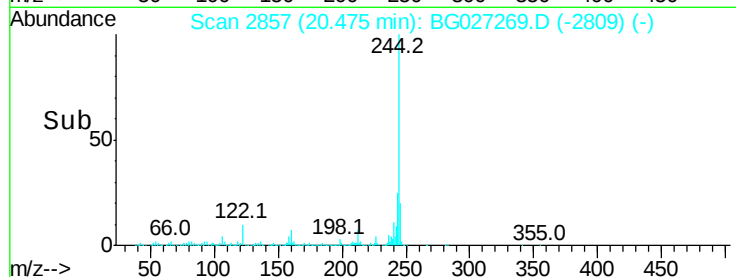
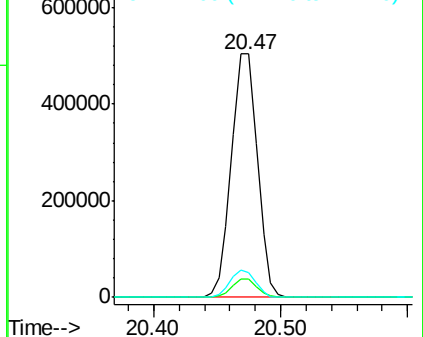
122 10.2 8.6 12.8



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 25.97 min Scan# 3793

Delta R.T. -0.05 min

Lab File: BG027269.D

Acq: 7 Jun 2017 4:00

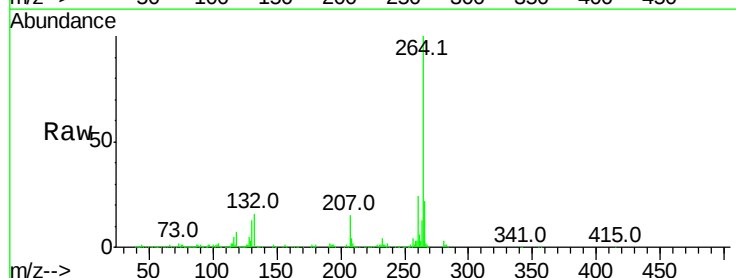
Tgt Ion:264 Resp: 396308

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.8  | 21.8  | 32.8  |
| 265 | 22.2  | 18.2  | 27.4  |

264 100

260 23.8 21.8 32.8

265 22.2 18.2 27.4



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

